

Title (en)

METHOD FOR PREPARING AN AQUEOUS CLAY PASTE AND USE THEREOF IN THE MANUFACTURE OF CERAMIC MATERIALS

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER WÄSSRIGEN TONERDEPASTE UND DEREN VERWENDUNG BEI DER HERSTELLUNG VON KERAMIKMATERIALIEN

Title (fr)

PROCÉDÉ D'OBTENTION D'UNE PÂTE AQUEUSE D'ARGILE, ET SON UTILISATION DANS LA FABRICATION DE MATÉRIAUX CÉRAMIQUES

Publication

**EP 2660221 A1 20131106 (EN)**

Application

**EP 11854109 A 20110621**

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Abstract (en)

The invention relates to a method for preparing an aqueous clay paste, characterized in that it includes at least the steps of: preparing a first mixture of clay and phosphoric acid and kneading; and adding hydrated sodium silicate (Na<sub>2</sub>O) - (SiO<sub>2</sub>) - (H<sub>2</sub>O) to said mixture, preferably having a 30% content of SiO<sub>2</sub>, also preferably in a phosphoric acid and sodium silicate ratio of at least 1:3 by weight; and kneading the final mixture. Said method includes different variants, depending on the content of water in the clay starter. The invention likewise relates to a method for manufacturing ceramic materials in which the aqueous clay paste is used as a raw material, which are obtainable by the method described herein, as well as to the aqueous clay paste and the ceramic material produced by both methods. The invention additionally relates to the use of the aqueous clay paste for manufacturing ceramic materials.

IPC 8 full level

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